

Work With L	aboratory Substances Risk	Assessment	
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Ema*	
THIS RISK ASSESSM	MENT IS APPROVED BY THE PCE	BU OF V PROJECT	
Under the Work Health and Safety Regulation (WHS Regulation), a p is prepared before the proposed work starts.	person conducting a busine or un	dertaking PCBU required to ensu	re that a RISK ASSESSMENT
Full Name:			
Signature:		ıtle:	Date:
CL'	OR PRICE LCO. TRACTOR E	DETAILS	
Client:		SCOPE OF	WORKS
Project Name:			
Project Address:			
Project Manager:			
Contact Phone:			
Date Risk Assessment supplied to Project Iv.			

Version 2.5 Authorised by Review # Review Date:



#### **RISK MATRIX LIKELIHOOD** INSIGNIFICANT MINOR MODERATE MAJOR CATASTROPHIC HIERARCHY OF CONTROLS SCORE ACTION Elimination ALMOST 3 HIGH 3 HIGH 4 4 ACUTE ACUTE ACUTE **CERTAIN** Remove the hazard. Substitution 4 4 DO NOT Replace the hazard. LIKELY **MODERATE** HIGH HIGH ACUTE ACUTE ACUTE ROCEED Isolation Isolate People from the hazard 2 3 4 3H Rev before POSSIBLE MODERATE ACUTE ACUTE LOW HIGH HIGH. work Engineering Isolate the l/Acchanich. Ensure control 2 3 2M istrativ UNLIKELY measures in LOW LOW MODERATE HIGH ACU RATE е place. Chang 2 MODERATE 3 HIGH 1L Monitor and RARE LOW LOW LOW keep records.

### Risk Rating & Required Action:

4A	Stop work. The risk is intolerable,	minate the hazard	redesign the activity before proceeding. A Safe Work
	Method Statement (SWMS) or hi	er-level authorisation	is required.
3H	Review and approve additional c	role ask	arts. Senior supervisor sign-off needed.
2M	Ensure all nominated controls are in	prace and efficive	Proceed with caution; monitor conditions.
1L	Proceed, following standard operating	ng procedurer //oni	itor and keep records.

### **Consequence Scale:**

Consequence	People (injury/illness)	Project / Assets	Compliance / Reputation
Catastrophic	Fatality or permanent total disability	project shutdown	Significant regulator intervention; criminal prosecution
Major	Serious injury/illness (hospital > 5 days)	critical delay	Improvement notice; major media coverage
Moderate	Medical-treatment injury; lost-time > 1 day	moderate delay	Minor breach; adverse client comment
Minor	First-aid only, no lost time	negligible delay	Isolated non-conformance
Insignificant	No injury	no schedule impact	Deviation caught and corrected on site

### Notes on Hierarchy of Controls:

Remember to apply controls in the preferred order shown by the coloured pyramid:

- 1. Eliminate
- Substitute
- 3. Isolate
- 4. Engineering
- 5. Administrative
- 6. PPE

Always document **why** a lower-order control is accepted if elimination or substitution is not reasonably practicable.

aligned with Safe Work Australia's Managing the risk of fatigue at work (2023) and ISO 45001:2018 clauses 6–8.



JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
1. Preparation	Chemical exposure, Spillage	3H	- Conduct a thorough risk assessment before starting work - Ensure familiarity with material safety data shows (MSDS) - Wear appropriate personal protective equation (PPE) cach as gloves and safety goggles - Use chemical fume hoods where necessary - Keep spill kits readily available - Train staff on emergency produlures - Store chemicals or eure, when no in use - Limit the quanty of cherrolls used minimale exposure - Ventile work once adoptately - Inspirate uipmed before use	2M
2. Sample Acquisition	Biological contamination Improper handling	31	- Use as otice shrique and sterile equipment  - Car P E including lab coats and gloves  Use a popriate containers for sample collection  abel all samples clearly  - Pollow standard operating procedures (SOPs)  - Minimise direct contact with samples  - Train staff in proper sample handling  - Dispose of unused samples properly  - Ensure requirement-based acquisition  - Limit number of people in acquisition area	2M
3. Chemical Mixing	Reaction hazards, Volatile emissions	4A	- Follow standard protocols for mixing  - Use fume hoods  - Do not mix chemicals without proper authorisation  - Wear full PPE including face shields  - Keep incompatible chemicals separated  - Monitor for unexpected reactions  - Maintain an emergency eye-wash station  - Train staff on chemical compatibility	2M



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			- Use automated systems where feasible	
			- Ensure proper ventilation is maintained	
4. Equipment Operation	Mechanical failure, Electrical hazards	3H		2M
5. Sample Analysis	Exposure to hazar us chemicals, Potential for spills	ЗН		2M
6. Data Recording	Human error, Data breach	2M		1L



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7. Disposal of Waste	Chemical spills, Environmental contamination	ЗН		1L
8. Cleaning Procedures	Slip hazards, Chen	2M		1L
9. Equipment Shutdown	Equipment overheating, Residual chemical activity	2M		1L



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SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
10. Documentation and Reporting	Information loss, Inaccurate records	2M		1L
11. Maintenance Activities	Mechanical injury, Chemical exposu	ЗН		1L
12. Emergency Response Training	Injury during practice, Miscommunication	2M		1L

Review Date:



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13. Personnel Training	Understanding gaps, Improper application	2M		1L
14. Equipment Calibration	Inaccurate results, Equipment de age	ЗН		1L
15. Security Measures	Unauthorised access, Theft of materials	ЗН		1L



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16. Incident Investigation	Incomplete findings, Re-occurrence of incidents	3H		1L
17. Safety Inspections	Overlooked hazards, Non-compliance	зн		1L
18. PPE Management	Inadequate protection, Improper use	3H		1L



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19. Decontamination Procedures	Spread of contaminants, Inadequate cleaning	4A		1L
20. Risk Communication	Misunderstanding, Incomplete dissemination	ЗН		1L



### **EMERGENCY RESPONSE - CALL 000 FOR EMERGENCIES**

Ensure to have an Emergency Management Plan in place as well as adequate numbers of trained first aid staff with easy access to fully stocked first aid kits, rescue equipment, material safety data sheets, adequate access to emergency communication equipment and fire-fighting equipment suitable for all classes of fire and ignition sources.

### LEGISLATIVE REFERENCES

RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEGISLATIVE REFERENCES. ANY STATE OF AT ARE NOT APPLICABLE.

### **Queensland & Australian Capital Territory**

Work Health and Safety Act 2011

Work Health and Safety Regulations 2011

Legislation QLD: https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws Codes of Practice QLD: https://www.worksafe.qld.gov.au/laws-and-compliance/codes-of-practice

Legislation ACT: https://www.worksafe.act.gov.au/laws-and-compliance/acts-and-regulations

Codes of Practice ACT: https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice

### **New South Wales**

Work Health and Safety Act 2011

Work Health and Safety Regulations 2017

Legislation NSW: https://www.safework.nsw.gov.au/legal-obligations/legislati

Codes of Practice NSW: https://www.safework.nsw.gov.au/resource-library/lis > odes-oi racti

### **Northern Territory**

Work Health and Safety (National Uniform Legislation) Act 2011

Work Health and Safety (National Uniform Legislation) Regulation 2011

Legislation NT: https://worksafe.nt.gov.au/laws-and-compliance/wo\_place-

Codes of Practice NT: https://worksafe.nt.gov.au/f

#### South Australia

Work Health and Safety Act 2012 (SA)

Work Health and Safety Regulations 2012 (SA)

Legislation for SA: https://www.safework.sa.gov.au/resources/legislation

Codes of Practice for SA: https://www.safework.sa.gov.au/work\_aces/codes-of-practice#COPs

### Tasmania

Work Health and Safety Act 2012

Work Health and Safety (Transitional and Consequential Provisions) Act 2012

Work Health and Safety Regulations 2012

Work Health and Safety (Transitional) Regulations 2012

Legislation for TAS: https://worksafe.tas.gov.au/topics/laws-and-compliance/acts-and-regulations

Codes of Practice for TAS: https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice

Details of permits, licenses or access required by regulatory bodies (add or delete as required):

- Permits from local council
- Authorisation to commence work
- Any required documents.

### Victoria

Occupational Health at Safety Act 34

Occupational Health and afety gulations 2017

Legis on VIC: https://www.ksafe.vic.gov.au/occupational-health-and-safety-act-and-

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### Western Australia

Work Health and Safety Act 2020

Work Health and Safety Regulations 2022

Legislation Western Australia: <a href="https://www.commerce.wa.gov.au/worksafe/legislation">https://www.commerce.wa.gov.au/worksafe/legislation</a> Codes of Practice WA: <a href="https://www.commerce.wa.gov.au/worksafe/codes-practice">https://www.commerce.wa.gov.au/worksafe/codes-practice</a>

### Safe Work Australia Links

Law and Regulation (All States): https://www.safeworkaustralia.gov.au/law-and-regulation Model Codes of Practice: https://www.safeworkaustralia.gov.au/resources-publications/model-codes-of-practice

### **Model Codes of Practice**

- Managing noise and preventing hearing loss at work
- Confined spaces
- Labelling of workplace hazardous chemicals
- Managing risks of hazardous chemicals in the workplace
- Welding processes
- First aid in the workplace
- Managing the risk of falls at workplaces
- Hazardous manual tasks
- Managing the risk of falls in housing construction
- Managing electrical risks in the workplace
- Demolition work
- Excavation work
- Work health and safety consultation, cooperation and coordination
- Managing the work environment and facilities
- How to manage work health and safety risks
- Managing risks of plant in the workplace
- Construction work